

# XM onyx

## User Guide





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# Introduction

# Introduction

## Features

### Congratulations on your purchase of the onyX!

The onyX has these exciting features to enhance your overall experience:

- Large color display: View artist name, song title, and channel information on a color display.
- Customize your display: Choose the backlight color theme that matches your mood or your vehicle dash lights.
- Personalize your radio: Choose the trim ring that reflects your taste or complements your vehicle interior.
- Improved audio connection options: Use either the included Aux In Cable, or the new *PowerConnect* technology to receive audio through your vehicle's stereo system.
- Enhanced real-time channel guide: Browse programs, artists, and songs playing on other channels, without having to change the channel you are on.
- Favorite channel presets: Save and enjoy fast access to up to 10 of your favorite channels.
- FM preset button: Store and quickly access FM channels that give you the best audio reception when using *PowerConnect*.
- One-Touch Jump™: Directly access traffic or weather of the 20 most congested cities, or use it to go back to the previous channel to which you were listening.
- Parental controls: Easily lock and unlock channels with mature content.

**Please read the entire user guide before using your onyX!**

## Safety and Care Information



**IMPORTANT!** Always read and understand all the instructions to avoid injury to yourself and/or damage to your device. SIRIUS XM Radio Inc. disclaims all responsibility for damage from data loss due to breakdown, repair, or other causes.

- Do not expose to extreme temperatures (above 140°F or below -4°F, or above 60°C or below -20°C).
- Do not expose to moisture. Do not use device near or in water. Do not touch the device with wet hands.
- Do not let any foreign matter spill into device.
- Do not store in dusty areas.
- Do not expose to chemicals such as benzene and thinners. Do not use liquid or aerosol cleaners. Clean with a soft damp cloth only.
- Do not expose to direct sunlight for a prolonged period of time, and do not expose to fire, flame, or other heat sources.
- Do not try to disassemble and/or repair device yourself.
- Do not drop your device or subject it to severe impact.
- Do not place heavy objects on device.
- Do not subject device to excessive pressure.
- If the LCD screen is damaged, do not touch the liquid crystal fluid.

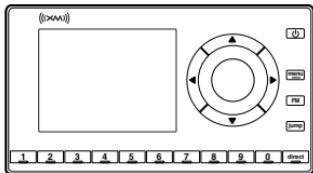
# Introduction

## Warning!

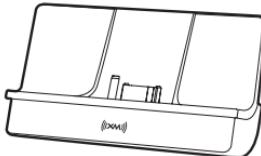
- Opening the case may result in electric shock.
- If the liquid crystal fluid comes in contact with your skin, wipe the skin area with a cloth and then wash the skin thoroughly with soap and running water. If the liquid crystal fluid comes into contact with your eyes, flush the eyes with clean water for at least 15 minutes and seek medical care. If the liquid crystal fluid is ingested, flush your mouth thoroughly with water. Drink large quantities of water, and induce vomiting. Seek medical care.
- Make sure that you insert the *PowerConnect* Power Adapter all the way into the vehicle's cigarette lighter or power adapter socket.
- If you are using *PowerConnect* as your audio connection option, it is advisable not to insert a multi-outlet adapter into the same vehicle cigarette lighter or power adapter socket to simultaneously power other devices. Some multi-outlet adapters can prevent the *PowerConnect* feature from working properly.
- When using this product, it is always important to keep your eyes on the road and hands on the wheel. Not doing so could result in personal injury, death, and/or damage to your device, accessories, and/or to your vehicle or other property.
- Vehicle installation and radio configuration functions should not be performed while driving. Park your vehicle in a safe location before beginning installation.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Your device should be placed in your vehicle where it will not interfere with the function of safety features, e.g., deployment of airbags. Failure to correctly place device may result in injury to you or others, if the unit becomes detached during an accident and/or obstructs the deployment of an airbag.

## What's in the Box?



onyX Radio



PowerConnect Vehicle Dock



Dash Mount



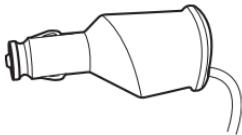
Aux In Cable



Trim Rings



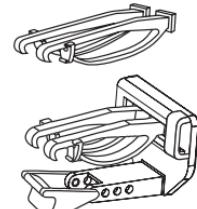
Trim Ring Removal Tool



PowerConnect Power Adapter



Magnetic Mount Antenna



Vent Mount  
and Extended  
Vent Clamps



Antenna & Dash Mount  
Alcohol Preparation Pads

# Introduction

## onyX Functions

**Up and Down Arrows**  
Scroll through lists and preview channels; also highlight menu options.

**Left and Right Arrows**  
Search for channels by category.

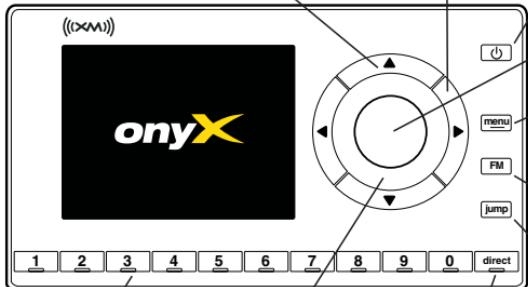
**Power Button**  
Turn radio on and off.

**Select Button**  
Press to confirm selection for channel and menu items.

**Menu Button**  
Access advanced features and configuration options; also press and hold to return to main display screen.

**FM Button**  
Access and cycle through FM presets.

**Jump**  
Directly access traffic and weather of the 20 most congested cities; or use it to go back to the previous channel to which you were listening.



**Number Buttons**  
Select your favorite channels; also enter a channel number.

**Trim Ring**  
Changeable decorative Trim Ring.

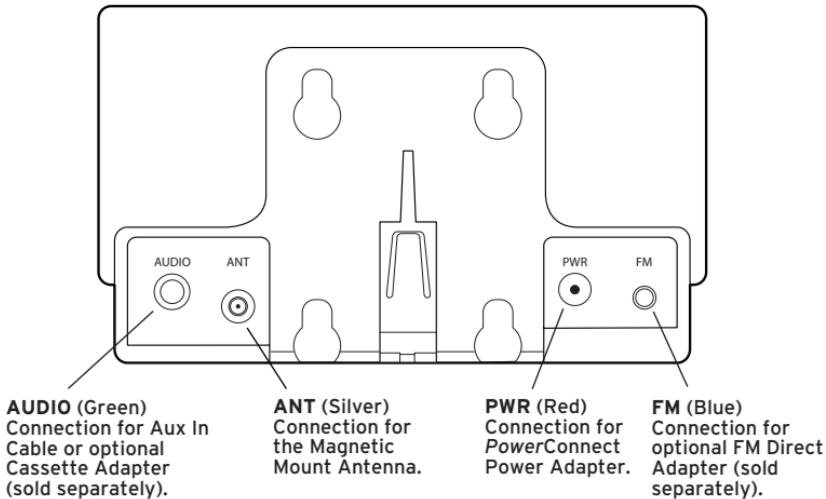
**Direct Button**  
Press first before entering the channel number, to directly tune to a channel.

## **PowerConnect Vehicle Dock**

### **Color-Coded Connections**

The color-coded PowerConnect Vehicle Dock makes it simple to connect. Just match the colors on the cable ends to the colors on the dock to see what goes where.

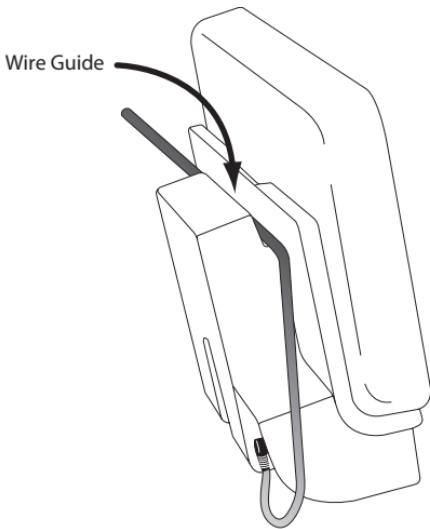
Rear View



# Introduction

## Wire Guide

The PowerConnect Vehicle Dock has a wire guide at the top rear that can help you to organize the cables and wires connected to the dock. If you need to bring a cable or wire from one side of the dock to the other, utilize the wire guide by looping the cable though the wire guide as shown.



# Vehicle Installation

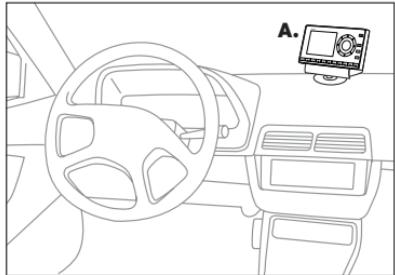
# Vehicle Installation

## Step 1: Choose a Location for Your Radio

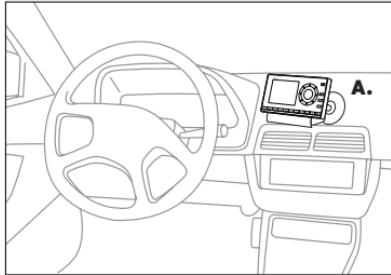
When installing the onyX in your vehicle, choose a location where it will not block your vision, interfere with the controls, or obstruct the air bag. The location should be easily accessible and provide good visibility of the display, and should not be located where it will be in direct sunlight, which will affect the visibility of the display screen.

Several examples of the onyX mounted in a vehicle are shown: **A** is the on dash method using the Dash Mount, and **B** is the vent clip method using the Vent Mount.

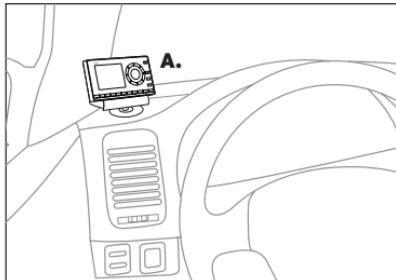
Option 1



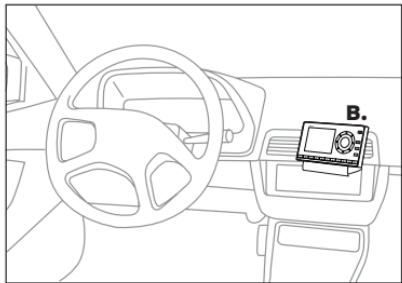
Option 2



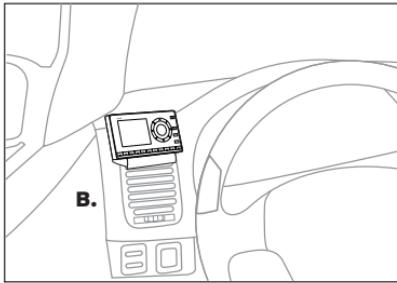
Option 3



Option 4



Option 5



# Vehicle Installation

## Step 2: Install the Dash or Vent Mount

Depending on your situation, you can either choose to use the Dash Mount or the Vent Mount.

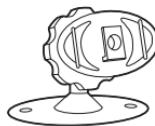


**IMPORTANT!** When you install the chosen mount, do not attach the dock to the mount. All cables should be attached to the dock prior to connecting the dock to the mount.

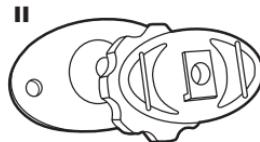
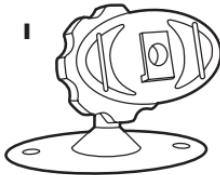
### *Installing the Dash Mount:*



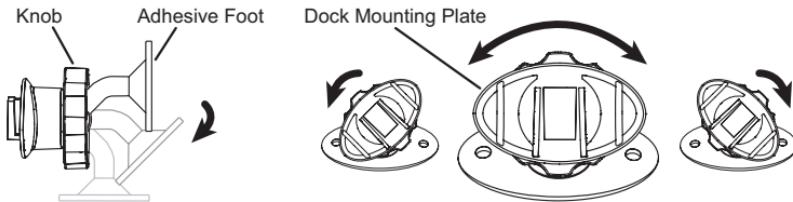
**CAUTION!** The adhesive used on the Dash Mount may be difficult to remove. Do not install this mount on leather surfaces (contact your vehicle dealer if you are unsure about your dash surface), and make sure the air temperature is at least 60°F (15°C) during installation. If it's not at least 60°F, turn on the heater in your vehicle to bring the temperature up to 60°F.



- 1 Locate a flat surface for the Dash Mount. Make sure there is ample room for the PowerConnect Vehicle Dock and onyX Radio when installed.
- 2 Set the orientation of the Dash Mount before adhering it. Loosen the knob and adjust the adhesive foot for the location you selected in "Step 1: Choose a Location for Your Radio" on page 14:
  - Option 1 & Option 3 should be oriented as **I**.
  - Option 2 should be oriented as **II**.

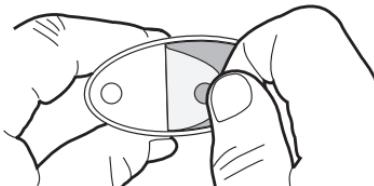


**3** The dock mounting plate can be tilted in different directions. Adjust as necessary for your particular vehicle. When the orientation is correct, tighten the knob.



**4** Clean the surface with the alcohol preparation pad and let it dry thoroughly.

**5** Peel off the adhesive liner. Position, press, and hold the Dash Mount in place for 30 seconds.



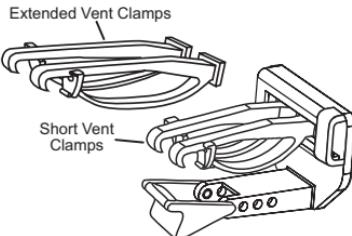
**IMPORTANT!** Allow the Dash Mount adhesive to cure (dry) for a minimum of 2-4 hours before using the mount. The best adhesion occurs after 24 hours.

**TIP!** To remove, carefully lift the adhesive pad with your fingers or a spoon. Warming the pad with a hair dryer for several minutes will help soften the adhesive.

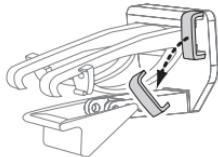
# Vehicle Installation

## *Installing the Vent Mount:*

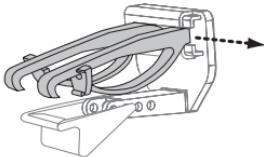
- 1 Locate a vent with horizontal louvers sturdy enough to hold your PowerConnect Vehicle Dock and radio.
- 2 If the vent louvers in your vehicle are recessed, you may need to use the longer vent clamps with the Vent Mount. If so, remove the shorter vent clamps and install the longer ones into the Vent Mount. Be sure to observe the orientation of the vent clamps as shown.



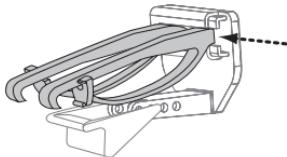
Remove End Cap



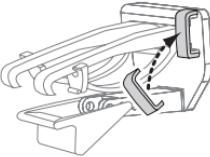
Slide Short Vent Clamps Out



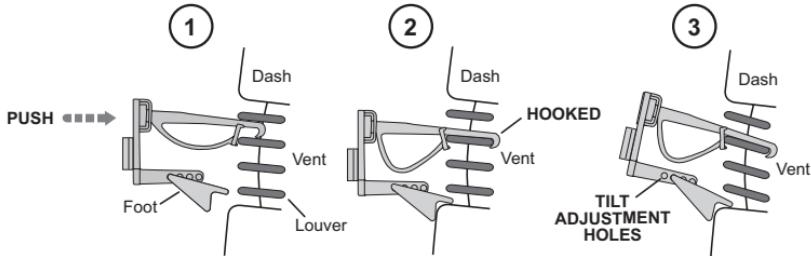
Slide Extended Vent Clamps In



Replace End Cap



- 3 Push the Vent Mount onto the vehicle vent as shown (1) until it hooks on the rear of the vent louver (2).
- 4 Rest the foot against the bottom of the vent (2), and adjust the tilt of the Vent Mount by repositioning the foot to a different adjustment hole (3).



To remove the Vent Mount, push the mount into the vent. Then lift up until disengaged from the rear of the vent louver, and remove the Vent Mount.

# Vehicle Installation

## Step 3: Mount the Magnetic Mount Antenna

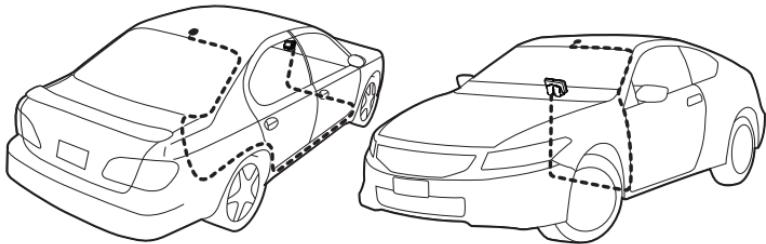
The Magnetic Mount Antenna contains a strong magnet which will stick to any metal part of your vehicle, but will not damage the vehicle.

*To install the Magnetic Mount Antenna:*

- 1 Choose the best location for your antenna considering your vehicle type. Pay particular attention to any accessories that you may have like luggage racks and how frequently you may use them.

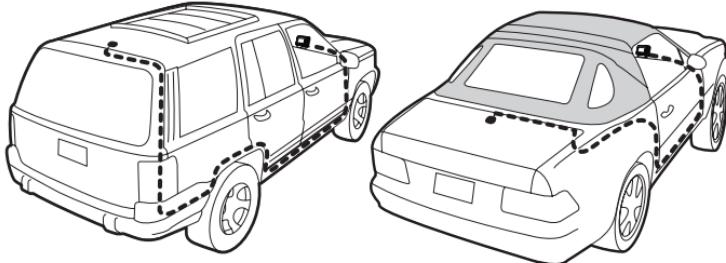


**Sedan/Coupe:** We recommend mounting the antenna just above either the front windshield or the back window as shown.



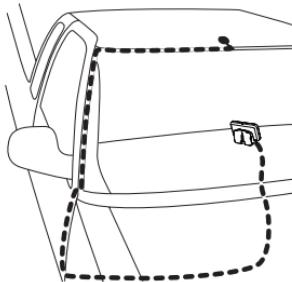
**SUV:** We recommend mounting the antenna at the rear of the roof as shown.

**Convertible:** We recommend mounting the antenna at the leading edge of the trunk as shown.



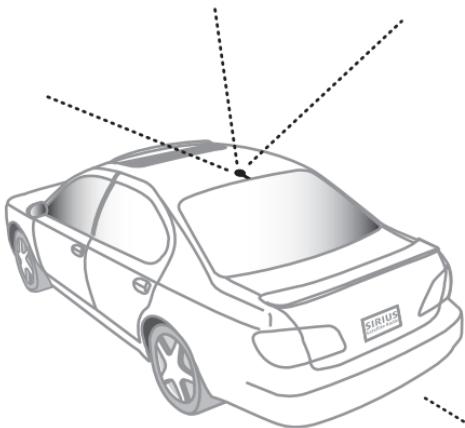
**Pickup Truck:** We recommend mounting the antenna just above the front windshield as shown.

- 2 Clean the surface of the selected mounting location using the alcohol preparation pad and let it dry thoroughly.

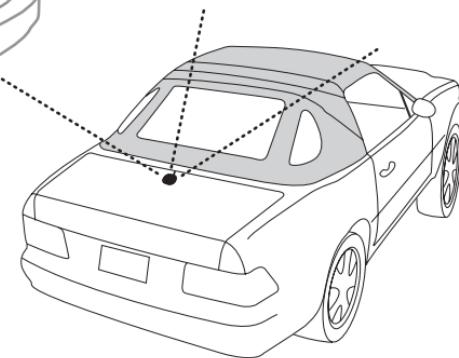


# Vehicle Installation

3 Place the antenna in the location you selected. Follow the Tips and Cautions shown on the next several pages.

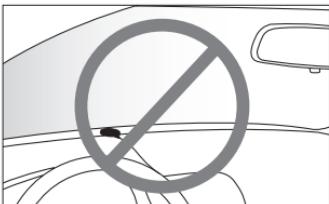


**TIP!** Mount the antenna on the roof (for most vehicles) or trunk (for convertibles) where it has a clear view of the sky in all directions.

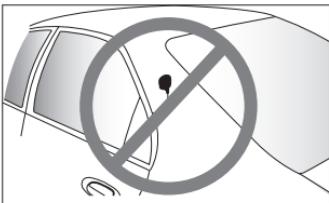




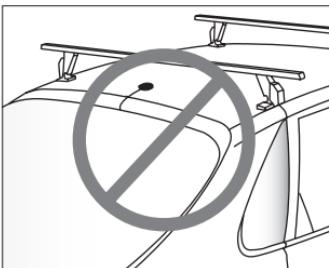
**CAUTION!** Don't mount the antenna inside the vehicle, for example, on the dashboard.



**CAUTION!** Don't mount the antenna on any of the vehicle's front, back or side pillars.



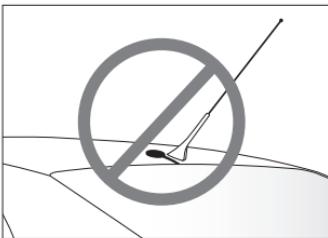
**CAUTION!** Don't mount the antenna close to a roof rack. Adjust the rack so it's further away from the antenna or move the antenna closer to the center of the roof.



# Vehicle Installation

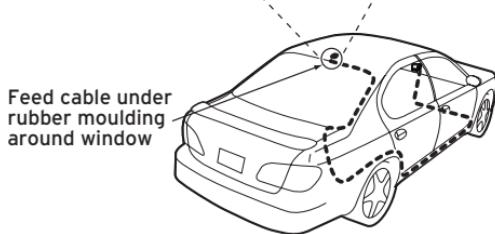
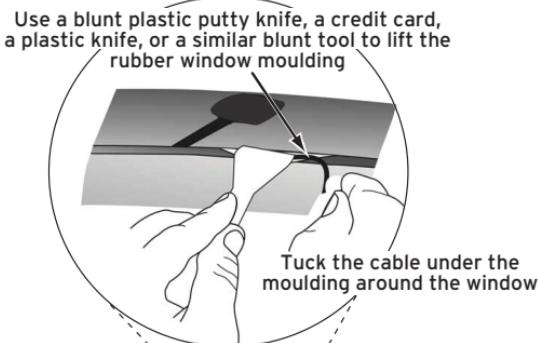


**CAUTION!** Don't mount the antenna close to another antenna. Mount it at least 3 inches away.



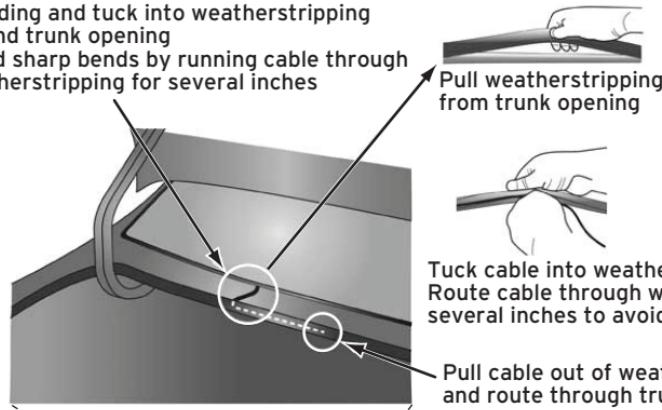
## Step 4: Route the Magnetic Mount Antenna Cable

Before you begin routing the antenna cable, read these general instructions for how to route and hide the antenna cable. Then route your antenna cable according to the instructions which follow for your specific type of vehicle.



# Vehicle Installation

Route cable out from under rear windshield moulding and tuck into weatherstripping around trunk opening  
Avoid sharp bends by running cable through weatherstripping for several inches

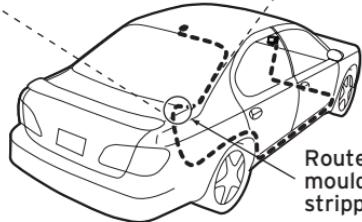


Pull weatherstripping from trunk opening



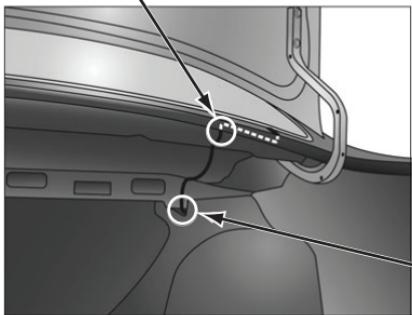
Tuck cable into weatherstripping.  
Route cable through weatherstripping several inches to avoid sharp bends

Pull cable out of weatherstripping and route through trunk to cabin

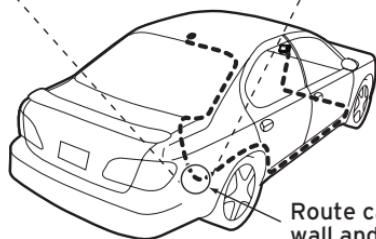


Route cable out of window moulding and into weatherstripping around trunk opening

Bring cable out of weatherstripping and into trunk

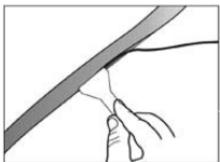


Route cable along trunk wall and into cabin through gap or conduit, along existing wiring harness

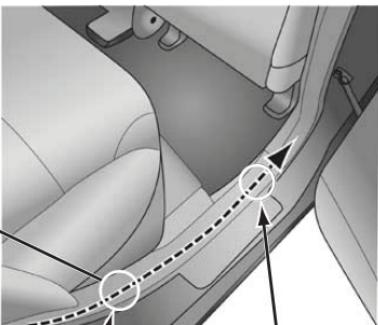


Route cable along trunk wall and into cabin

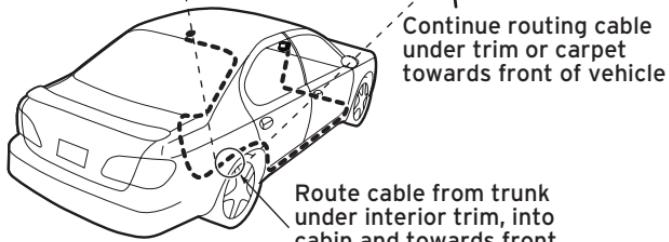
# Vehicle Installation



Use a blunt plastic putty knife or similar blunt tool to lift edge of interior trim and tuck cable under trim. Continue towards front of vehicle

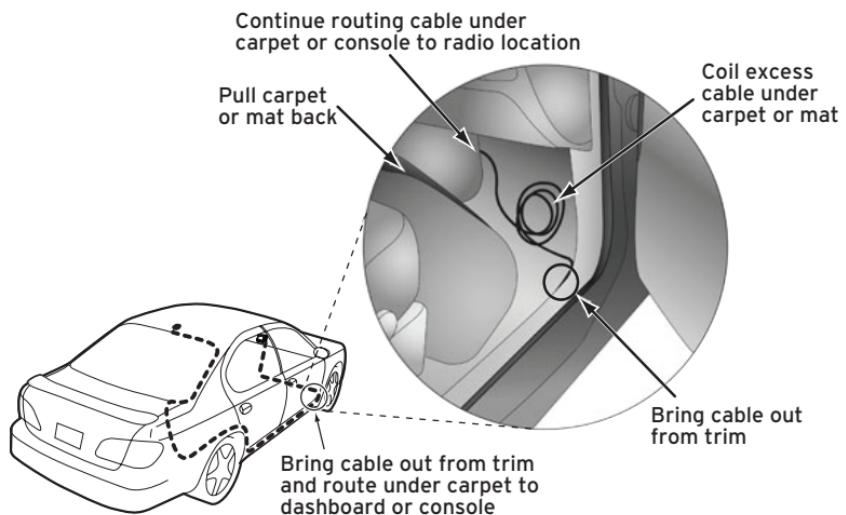


Route cable under trim or upholstery



Route cable from trunk under interior trim, into cabin and towards front of vehicle

Continue routing cable under trim or carpet towards front of vehicle

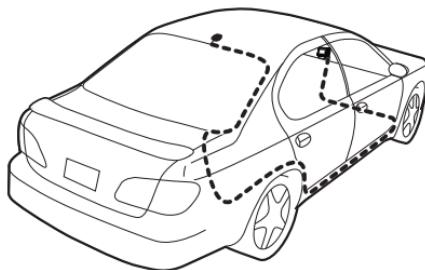


**TIP!** Always be careful to include enough slack in your cable to accommodate open doors or trunk lids. Use things typically found around the home, like electrical tape, to secure cables in areas so that hinges do not pinch the cable with the door. Hide any excess cable in the trim.

# Vehicle Installation

- Sedan/Coupe With Antenna Placed at the Rear of the Roof:

1. Feed the antenna cable from the antenna underneath the rubber molding around the rear window. Use a blunt plastic putty knife or similar blunt tool to lift the rubber molding around the rear window and tuck the antenna cable underneath the molding. Route the antenna cable around and down the window to the lowest point. If your rear window does not have rubber molding, we recommend consulting a professional installer.
2. Route the antenna cable out of the window molding and into the rubber weather stripping around the trunk opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. To avoid sharp bends in the cable, run the cable inside the weather stripping for a few inches, then remove the cable from the weather stripping inside the trunk. Keep the cable away from hinges, gears, etc., that could damage it.
3. Route the cable out from the rubber weather stripping and along the trunk wall. Continue routing the cable into the vehicle cabin through a conduit or along an existing wiring harness.
4. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use a blunt plastic putty



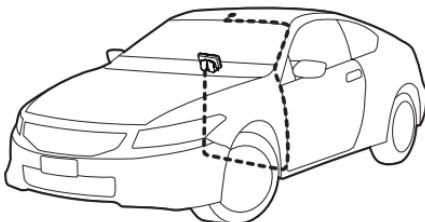
knife or similar blunt tool to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations on back pillars and above the doors. Airbag locations are marked with "SRS" logos. Be careful not to crimp or cut the cable.

5. Bring the cable out from the trim near the front of the cabin and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties (purchased separately).
6. Bring the end of the cable out at the *PowerConnect Vehicle Dock* location. Leave yourself enough cable so you can easily connect it to the antenna connector of the dock.
7. Continue with "Step 5: Connect the Magnetic Mount Antenna and *PowerConnect Power Adapter*" on page 37.

# Vehicle Installation

- Sedan/Coupe With Antenna Placed at the Front of the Roof:

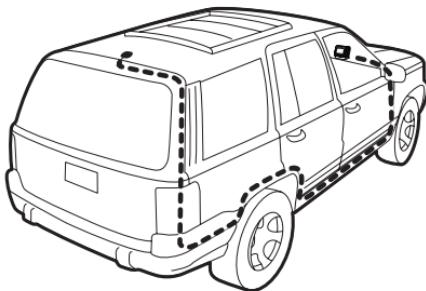
1. Feed the antenna cable from the antenna underneath the rubber molding around the windshield. Use a blunt plastic putty knife or similar blunt tool to lift the rubber molding around the windshield and tuck the antenna cable underneath the molding. Route the antenna cable around and down the windshield to the lowest point.
2. At the lowest corner of the windshield, route the cable out of the windshield molding and into the rubber weather stripping around the door opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Run the cable inside of the weather stripping to the bottom of the door opening.
3. Pull the cable out of the weather stripping at the bottom of the door opening and route it under the carpet toward the dashboard. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
4. Bring the end of the cable out at the PowerConnect Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector of the dock.



5. Continue with "Step 5: Connect the Magnetic Mount Antenna and PowerConnect Power Adapter" on page 37.

- **SUV:**

1. Feed the antenna cable underneath the rubber weather stripping of the rear tailgate window/door and route the cable along the rear hatch. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Pull the cable out from weather stripping and route it into the cabin under the interior trim. Avoid hinges or gears that could crimp or cut the cable.
2. Route the cable through the SUV's main cabin area under the interior trim, towards the front of the vehicle. Use a blunt plastic putty knife or similar blunt tool to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations  
on back pillars and  
above the doors.  
Airbag locations are  
marked with "SRS"  
logos. Be careful not  
to crimp or cut the  
cable.
3. Bring the cable out  
from the trim near  
the front of the cabin  
and route it under



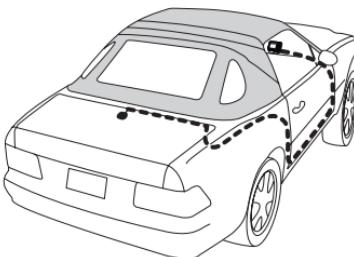
# Vehicle Installation

the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties (purchased separately).

4. Bring the end of the cable out at the PowerConnect Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector of the dock.
5. Continue with "Step 5: Connect the Magnetic Mount Antenna and PowerConnect Power Adapter" on page 37.

- **Convertible:**

1. Bring the antenna cable from the antenna into the trunk at the front edge of the trunk lid. Keep any bends in the cable loose. Tape or tie the cable along the inside of the trunk lid to the trunk lid hinge strut.
2. Allow enough slack in the cable so the trunk lid can easily open and close and keep the cable away from hinges, gears, etc., that could crimp or cut it. Route the cable along the trunk wall and into the cabin through a conduit or along an existing wiring harness.
3. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use a blunt plastic putty knife or similar blunt tool to lift the plastic trim just enough to tuck the cable

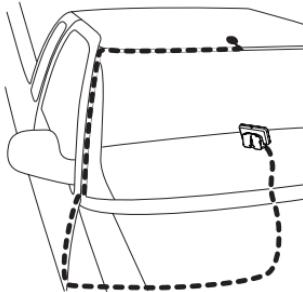


under underneath. Avoid side airbag locations on back pillars and above the doors. Airbag locations are marked with "SRS" logos. Be careful not to crimp or cut the cable.

4. Bring the cable out from the trim near the front of the cabin and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties (purchased separately).
5. Bring the end of the cable out at the *PowerConnect Vehicle Dock* location. Leave yourself enough cable so you can easily connect it to the antenna connector of the dock.
6. Continue with "Step 5: Connect the Magnetic Mount Antenna and PowerConnect Power Adapter" on page 37.

- **Pickup Truck:**

1. Use a blunt plastic putty knife or similar blunt tool to lift the rubber molding around the windshield and tuck the antenna cable underneath it.
2. Continue tucking the cable underneath the windshield molding around the windshield to the lowest corner.
3. At the lowest corner of the



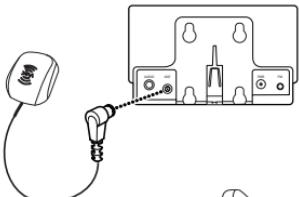
# Vehicle Installation

windshield, route the cable out of the windshield molding and into the rubber weather stripping around the door opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Run the cable inside of the weather stripping to the bottom of the door opening.

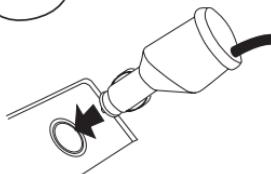
4. Pull the cable out of the weather stripping at the bottom of the door opening and route it under the carpet toward the dashboard. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
5. Bring the end of the cable out at the PowerConnect Vehicle Dock location. Leave yourself enough cable so you can easily connect it to the antenna connector of the dock.
6. Continue with "Step 5: Connect the Magnetic Mount Antenna and PowerConnect Power Adapter" on page 37.

## Step 5: Connect the Magnetic Mount Antenna and PowerConnect Power Adapter

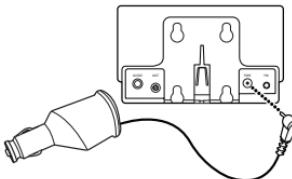
- 1 Plug the Magnetic Mount Antenna into the **silver ANT** connector on the PowerConnect Vehicle Dock.



- 2 Insert the PowerConnect Power Adapter into your vehicle's cigarette lighter or power adapter socket.



- 3 Plug the PowerConnect Power Adapter into the **red PWR** connector on the dock.



# Vehicle Installation

## Step 6: Connect the Audio

To play audio through your vehicle's stereo or FM radio, decide on one of the following audio connection options:

- **Option 1: Best:** Use the **Aux In Cable** if your vehicle's stereo system has an auxiliary input connection. Refer to your vehicle's owners manual to find the location of the auxiliary input jack, or consult the vehicle dealer.



**TIP!** The auxiliary input jack may be located on the face plate of the vehicle radio, on the back of the radio, anywhere on the front dash panel, inside the glove compartment, or inside the center console in between the front seats.

- **Option 2: Better:** Use a **Cassette Adapter** if your vehicle has a built-in cassette player. Cassette Adapters are sold separately and can be purchased from an electronics retailer, or go to [xmradio.com/accessories](http://xmradio.com/accessories).
- **Option 3: Good:** Use the **PowerConnect** feature in the onyX. PowerConnect plays the audio through your vehicle's FM radio.
- **Option 4: Best:** Use the **FM Direct Adapter**. If none of the previous three audio connection options will work in your vehicle, then you will need to use the FM Direct Adapter (FMDA) (sold separately). The FMDA needs to be installed by a professional installer and directly connects the onyX to your vehicle's FM radio. To learn more, check with the retailer where you bought your radio, or go to [xmradio.com/accessories](http://xmradio.com/accessories).

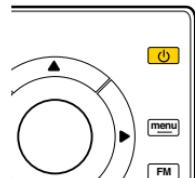
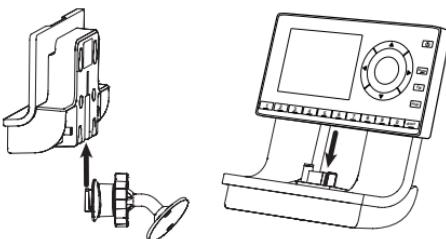
Follow the installation instructions in the next several sections for the audio connection option that you have selected.

## Option 1: Aux In Cable Installation Instructions

- 1 Plug one end of the Aux In Cable into the **green AUDIO connector** on the dock.

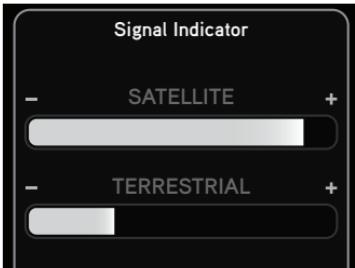


- 2 Plug the other end into the auxiliary input jack connection of your vehicle's stereo system.
- 3 Insert the dock into the mount.
- 4 Insert your onyX into the dock.
- 5 Power on your onyX by pressing the **Power** button.
- 6 Be sure the vehicle is outside and the antenna has a clear view of the sky. Verify that you are receiving the XM signal. There should at least be one bar on the lower left corner of the main



# Vehicle Installation

display screen that denotes antenna signal strength. You can also press **menu** and then press ▼ to scroll to and highlight **Signal Indicator**. Press the **Select button**. The Satellite and Terrestrial bars show the strength of the signal being received. If the signal reception is good, press and hold **menu** to return to the main display screen.

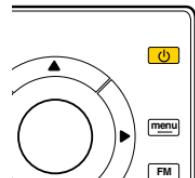
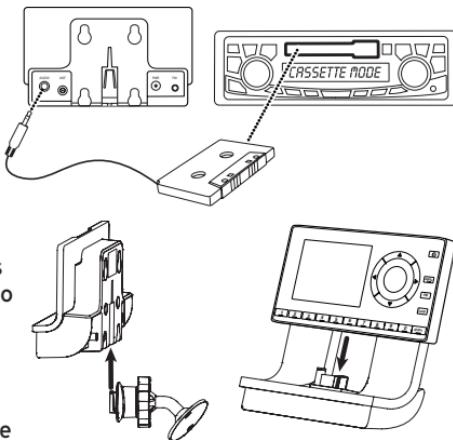


- 7 Ensure onyX is tuned to channel 1. Upon power up, onyX should tune to channel 1 by default, when it's not yet activated. If it's not on channel 1, refer to "Listening to Satellite Radio" on page 55 to learn about how to tune a channel.
- 8 Turn on your vehicle's stereo system. Set it to play input from the auxiliary input source.
- 9 You should hear XM channel 1 through your vehicle's stereo system. You are now ready to activate your onyX.
- 10 The audio level output of the onyX can be increased or decreased as necessary to match the audio levels of other sources in your vehicle. Refer to "Set Audio Level" on page 89.

If the signal reception is good, but there is no audio when tuned to channel 1, be sure the vehicle's stereo system is set to the correct source, i.e., auxiliary input source (step 8). Also be sure that the audio level is set high enough to be heard (step 10). Refer to "Troubleshooting" on page 102 for additional help.

## Option 2: Cassette Adapter Installation Instructions

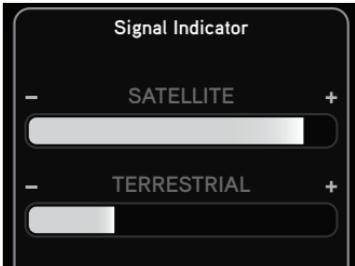
- 1** Plug the Cassette Adapter into the **green AUDIO** connector on the dock.
- 2** Insert the Cassette Adapter into the vehicle's cassette deck. You may need to turn on your vehicle's stereo system in order to do so.
- 3** Insert the dock into the mount.
- 4** Insert your onyX into the dock.
- 5** Power on your onyX by pressing the **Power** button.
- 6** Be sure the vehicle is outside and the antenna has a clear view of the sky. Verify that you are receiving the XM signal. There should at least be one bar on the lower left corner of the main display screen that denotes antenna signal



# Vehicle Installation

strength. You can also press **menu** and then press ▼ to scroll to and highlight **Signal Indicator**. Press the **Select button**. The Satellite and Terrestrial bars show the strength of the signal being received. If the signal reception is good, press and hold **menu** to return to the main display screen.

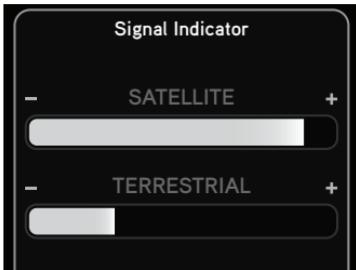
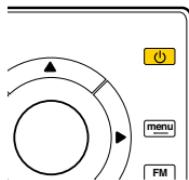
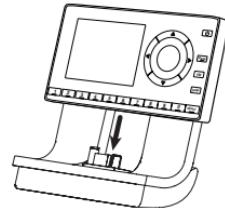
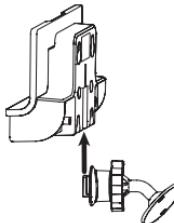
- 7 Ensure onyX is tuned to channel 1. Upon power up, onyX should tune to channel 1 by default, when it's not yet activated. If it's not on channel 1, refer to "Listening to Satellite Radio" on page 55 to learn about how to tune a channel.
- 8 If you haven't done so, turn on your vehicle's stereo system. Set it to play input from the cassette source.
- 9 You should hear XM channel 1 through your vehicle's stereo system. You are now ready to activate your onyX.
- 10 The audio level output of the onyX can be increased or decreased as necessary to match the audio levels of other sources in your vehicle. Refer to "Set Audio Level" on page 89.



If the signal reception is good, but there is no audio when tuned to channel 1, be sure the vehicle's stereo system is set to the correct source, i.e., cassette source (step 8). Also be sure that the audio level is set high enough to be heard (step 10). Refer to "Troubleshooting" on page 102 for additional help.

### Option 3: PowerConnect Installation Instructions

- 1 Insert the dock into the mount.
- 2 Insert your onyX into the dock.
- 3 Power on your onyX by pressing the **Power** button.
- 4 Be sure the vehicle is outside and the antenna has a clear view of the sky. Verify that you are receiving the XM signal. There should at least be one bar on the lower left corner of the main display screen that denotes antenna signal strength. You can also press **menu** and then press **▼** to scroll to and highlight **Signal Indicator**. Press the **Select** button. The Satellite and Terrestrial bars show the strength of the signal being received. If the signal reception is good, press and hold **menu** to return to the main display screen. You are ready to make the audio connection.



# Vehicle Installation

- 5 You'll first need to find an available FM channel. An available FM channel is one that's not being used by an FM radio station in your area. When you tune your FM radio to an available channel, you should only hear static or silence - not talk or music. We recommend one of the following methods to find an available FM channel:
  - a. Use the SIRIUS | XM FM Channel Finder at [www.xmradio.com/fmchannel](http://www.xmradio.com/fmchannel). Go to the website and enter your zip code. The Channel Finder will suggest a list of available FM channels in your area. For convenience, write down or print out the list.

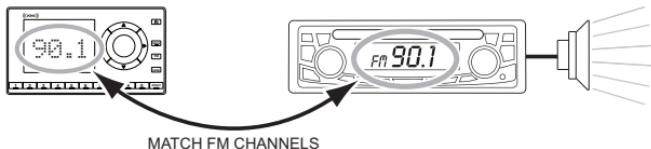
OR

  - b. Manually tune through your local FM channels on your vehicle's FM radio. Locate and create a list of channels that aren't being used by any FM radio station. Write down the list. Once you have created your list of available FM channels, you will need to find the one that provides the best match for onyX.
-  **TIP!** You'll need to use the 'Manual' tune function on your vehicle's FM radio to tune through every FM channel one-by-one. Turn on your vehicle's FM radio. Start at 88.1 and use the 'Manual' tune function on your vehicle's FM radio to tune through each FM channel one-by-one (88.1 followed by 88.3 etc.) to locate channels that aren't being used by a local FM radio station. Write down each FM channel that has only static or silence on it, until you reach 107.9.
- 6 Ensure onyX is tuned to channel 1. Upon power up, onyX should tune to channel 1 by default, when it's not yet activated. If it's not on channel 1, refer to "Listening to Satellite Radio" on page 55 to learn about how to tune a channel.
- 7 Pick the first FM channel on your list from step 5. Turn on your vehicle's FM

radio (if you have not already done so) and tune it to this FM channel.



**NOTE!** If you are using the Vehicle Dock from the Universal Xpress Car Kit instead of the PowerConnect Vehicle Dock which came with your onyX, you will have to disable AUX Detect. Refer to "Using the Vehicle Dock From the Universal Xpress Car Kit" on page 96, and complete the additional instructions before continuing with the next step. The audio connection will be through your vehicle's FM radio, but it is not PowerConnect.



- 8 Set your onyX to transmit on the same FM channel that you have selected in step 7:
  - i. Press **menu**.
  - ii. Press ▼ to scroll to and highlight **FM Settings** and press the **Select button**.
  - iii. **FM Channels** will be highlighted. If it is not highlighted, press ▼ to scroll to and highlight **FM Channels**. Press the **Select button**.
  - iv. Press ▼ to scroll to and highlight the storage location **FM 2** and press the **Select button**.
  - v. Tune to the available FM channel you found in step 7. Press ◀

# Vehicle Installation

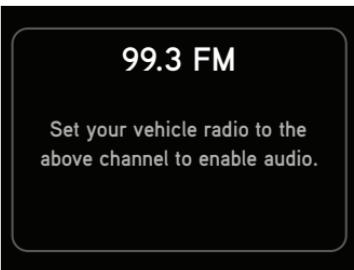
and ► to tune in steps of .2, i.e., 99.3 to 99.5. Press ▼ and ▲ to tune in steps of 1, i.e., 99.3 to 100.3. Press the **Select button** to select the FM channel.

- v. **Start Using** is highlighted. Press the **Select button**.
- vi. The FM channel you selected will be confirmed on the display screen. The onyX will tune to the FM channel.

9 You should hear XM channel 1 through your vehicle's FM radio. If you are satisfied with the sound quality, you're done! You are now ready to activate your onyX.

10 If the selected FM channel doesn't work well for you, work down the list of FM channels until you find one that allows you to hear XM clearly. Each time, you will need to tune your vehicle's FM radio to the FM channel and then set your onyX to transmit on the same FM channel (steps 7 & 8).

FM Channels		
FM 1	97.9	current
FM 2	---	
FM 3	---	
FM 4	---	
FM 5	---	



If the signal reception is good, but there is no XM audio when tuned to channel 1,

verify that both the onyX and your vehicle's FM radio are tuned to the same FM channel (steps 7 & 8). Also ensure the chosen FM channel is a suitable one to use in your area (step 5). Verify that nothing is plugged into the **AUDIO** connector on the PowerConnect Vehicle Dock. Refer to "Troubleshooting" on page 102 for additional help.

#### **Option 4: FM Direct Adapter (FMDA) Installation**

The FMDA needs to be installed by a professional installer. Professional installation can help improve your radio's reception and significantly reduce the visibility of wires. To learn more, check with the retailer where you bought your radio, or go to [xmradio.com/accessories](http://xmradio.com/accessories).



# Activation

# Activation

Before you can enjoy Commercial-Free Music, plus Sports, News, Talk & Entertainment, you need to activate your onyx.

- 1 Make sure your onyx is properly installed, turned on, and receiving the XM signal so that you can hear the audio on channel 1.
- 2 Make a note of your XM Radio ID. You can find it on channel 0, on a label on the bottom of the gift box, and on the label on the back of your onyx.

**NOTE!** The XM Radio ID does not use the letters I, O, S, or F.



- 3 Activate your service:

- Online: Go to [www.xmradio.com](http://www.xmradio.com) and click on "ACTIVATE RADIO" in the top right corner  
OR
- By phone: Call 1-800-XM-RADIO (1-800-967-2346)



**TIP!** You can follow the built in activation wizard in your onyx. If your radio has not been activated, press **menu** and the first item in the list will be **Activate Radio**. Press the **Select button**. A series of screens will guide you through the activation process. Follow the instructions on each screen. Press the **Select button** to advance to the next screen, or **menu** to cancel and return to the main display screen.

## Welcome

The next few screens will help you activate your satellite radio. Please press **Select** to continue with the activation of your radio, or press **menu** to cancel activation at this time.

Press Select to continue

- 4 When your service is activated, your onyx will receive all channels to which you have subscribed. At this time, if you press ▲ or ▼, you can scroll and tune other channels. Activation usually takes 10 to 15 minutes, but may take up to an hour. We recommend that your radio remain on until activated.

# Using Your onyx

# Using Your onyx

## The Main Display

When listening to a channel, information about the channel is displayed.



## Navigation Basics

### Power Button



Pressing the **Power button** turns the onyX On or Off.

### Navigation Buttons

Use the **Left**, **Right**, **Up**, and **Down** buttons to navigate through various features and functions of onyX.



- **Left ▲ or Right ▼ button:** Displays the channel categories such as Rock, Pop, Sports, Talk/New etc. Repeated presses cycle through the categories one at a time. Decreases or increases the settings of various menu options such as Brightness, Audio Level, etc.
- **Up ▲ or Down ▼ button (press and release):** Immediately tunes to the next or previous channel in the channel lineup. Scrolls through lists and highlights an item in the list.
- **Up ▲ or Down ▼ button (press and hold):** Continuously scrolls through any list. While on the main display screen, continuously scrolls through the channel lineup and briefly displays the information of each channel. When the button is released, radio tunes to the last channel it had scrolled to in the channel lineup.

### Select Button

The **Select button** selects a highlighted item in a list and confirms settings.



# Using Your onyx

## Menu Button

menu

Pressing **menu** displays various options to make setup and feature changes.

Pressing **menu** when in menu options returns to the previous menu option screen until menu options is exited. Pressing and holding **menu** returns to the main display screen in most instances.

## FM Button

FM

Provides easy tuning of FM presets for optimized PowerConnect performance.

Repeatedly pressing **FM** displays and cycles through the list of preset FM channels one at a time. The radio automatically tunes to the displayed FM channel. Pressing and holding **FM** accesses the FM Settings menu. It is not available when Aux In Cable or Cassette Adapter is used for audio connection.

## Jump Button

jump

Depending on how it is configured, pressing **jump** either tunes to the channel broadcasting traffic and weather conditions of a selected city, from a list of the 20 most congested cities, or tunes to the previous channel that was being played.

## Direct Button

direct

Pressing **direct** prompts for the entry of a channel number using the number buttons. Once the channel number is entered, the radio directly tunes to the new channel.

## Number Buttons

1 ... 0

Each number button stores a favorite channel in its button location and provides one touch access to it afterward. Number buttons also directly tune to a channel when the channel number is entered after pressing **direct**.

## Listening to Satellite Radio

### *Tune a channel:*

- 1 Press and release ▲ and ▼ to immediately tune to the next or previous channel.
- 2 Press and hold ▲ and ▼ to quickly scroll through the channels. Release to tune to the channel that is displayed.

### *View a category:*

Channels are organized into categories to make it easier for you to find the ones that suit your taste.

To view a category press ◀ or ▶.

- 1 Scroll through the category using ▲ and ▼, and find the channel you want.
- 2 Press the **Select button** to select the channel, or press ◀ or ▶ for the previous or next category.



**TIP!** To briefly listen to each channel in the category, scroll to and highlight Scan at the end of the category list and press the **Select button**. Refer to "Scanning Channels in a Category" on page 59 to learn more about Scan.

# Using Your onyX

## Direct Tune

A channel can be tuned directly by entering the channel number using the number buttons.

- 1 To directly tune a channel press **direct**.



- 2 Use the number buttons **0-9** to enter the channel number and wait a moment until the channel is tuned, or press the **Select button** to immediately tune to the channel.

## Jump

Depending upon how you configure the mode, **jump** will either go to the traffic and weather channel of a selected city, from a list of the 20 most congested cities, or go to the last channel to which you were listening.



**TIP!** By default **jump** is configured to tune to a traffic/weather channel. To select a city for traffic and weather, or to configure **jump** to tune to the last channel listened to, refer to "Jump Settings" on page 86.

## Return to Main Display Screen

Pressing and holding **menu** in most instances will return you to the main display screen. In some cases, you may need to follow the instructions on the display screen.

# Using Your onyx

## Favorite Channels

You can set up to 10 of your favorite channels so you can easily access them. Each favorite channel can be assigned to a number button.

*To assign a favorite channel to a number button:*

- 1 Tune to the desired channel.
- 2 Press and hold the number button **0-9** you want to assign to that favorite channel.

*To listen to a favorite channel:*

- 1 Press the number button **0-9** that was assigned to the desired favorite channel.



**TIP!** When you are at the main display screen, press to see your list of favorite channels. Scroll to highlight a favorite and press the **Select button** to listen to that channel.

### Favorite Saved

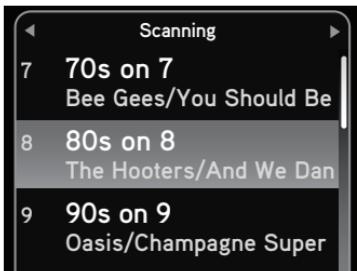
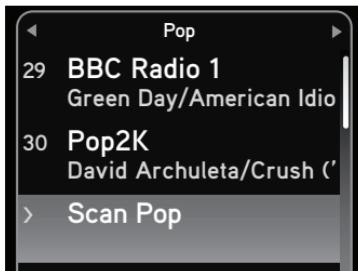
26 The Pulse  
saved as  
Favorite 1

## Scanning Channels in a Category

You can scan a category and listen to each channel for 10 seconds before the next channel is automatically tuned. If you want to stay tuned to the channel being played and stop the scan, just press the **Select button**.

*To scan a category:*

- 1 Press **◀** or **▶** until the desired category is displayed.
- 2 Scroll down to highlight the last item in the category which will be **Scan** and the category name.
- 3 Press the **Select button**. The scan will begin.
- 4 Press the **Select button** to stop the scan, and continue to listen to the channel currently being played, or press **▼** or **▲** to return to the channel you were listening to before you began the scan.



# Using Your onyX

## FM Presets

FM presets make it easy to quickly access stored FM channels and choose a new FM channel from them.

Use FM presets when you use PowerConnect to listen to your onyX through your vehicle's FM radio. (Refer to "Option 3: PowerConnect Installation Instructions" on page 43 for more information.)

### *To start using a different FM preset:*

- 1 Press **FM** to display the current FM preset.
- 2 To display and select the next FM preset, press **FM**. The radio will tune to the displayed FM channel. If the preset is the one you want, press **menu** or wait for the screen to timeout.
- 3 Repeatedly pressing **FM** will cycle through the FM presets.
- 4 Set your vehicle's FM radio to the same FM channel.



**IMPORTANT!** You need to ensure that your vehicle's FM radio is tuned to the same FM channel.

**99.3 FM**

Set your vehicle radio to the above channel to enable audio.

**103.7 FM**

Set your vehicle radio to the above channel to enable audio.



**TIP!** To configure the list of preset FM channels, you need to find available FM channels in your area. Refer to "Find Available FM Channels in Your Area" on page 79. Next, refer to "Set and Select an FM Channel" on page 82.



# Special Features

# Special Features

## Color Themes

You can change the color of the display screen to one of 6 color themes: Blue, Red, Amber, Yellow, Silver, or Teal. You can coordinate the color theme with your vehicle dash lights and with the Trim Ring of your choice for your onyX. The default color theme is blue.

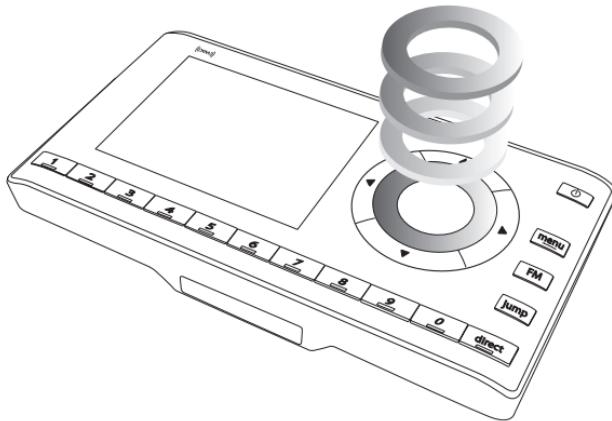
*To change the color theme:*

- 1 Press menu.
- 2 Press ▼ to scroll to and highlight Color Theme. Press the Select button.
- 3 Press ◀ or ▶ to highlight the desired color theme. The onyX will immediately change to the selected color theme.
- 4 Press the Select button to confirm the selected color theme.
- 5 Press and hold menu to return to the main display screen.



## Trim Rings

Your onyX has a changeable Trim Ring to style the radio to your liking. The Trim Ring surrounds the **Select button** on the radio. A total of three trim rings are included with your onyX, including the one that is already installed in the onyX Radio.



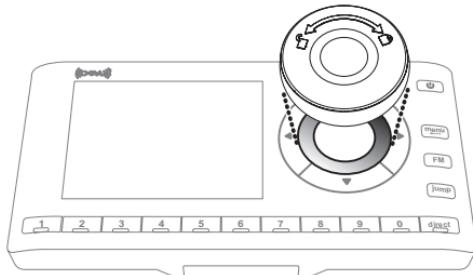
### ***To remove and replace the Trim Ring:***

The Trim Ring can be removed by using the Trim Ring Removal Tool. Placing this tool against the Trim Ring, and with mild pressure while turning the tool, it will loosen or tighten the Trim Ring depending upon which direction you

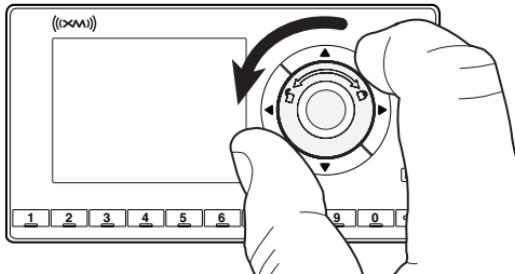
# Special Features

turn the tool.

- 1 Place the Trim Ring Removal Tool on the Trim Ring on the radio. Use care to align the tool so it's centered on the Trim Ring.

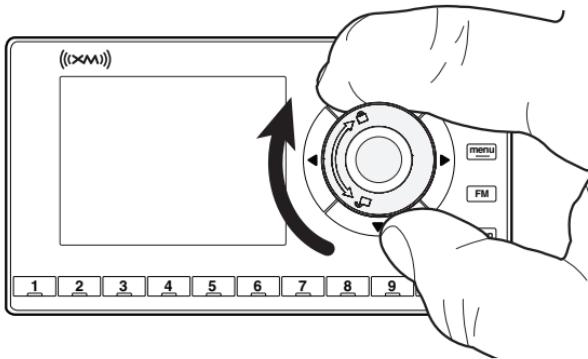


- 2 Using mild pressure to keep the tool against the Trim Ring, rotate the



tool counter-clockwise until it will not rotate any further.

- 3 The Trim Ring is now loose. Turn the onyX over and the Trim Ring should fall out. If it does not, gently tap the back of the radio until it does.
- 4 Turn the radio face up again and insert the new Trim Ring into the radio.
- 5 Align the Trim Ring Removal Tool on the Trim Ring on the radio. Use care to align the tool so it's centered on the Trim Ring.



- 6 Using mild pressure to keep the tool against the Trim Ring, rotate the tool clockwise until it will not rotate any further. The new Trim Ring is now installed.

# Special Features

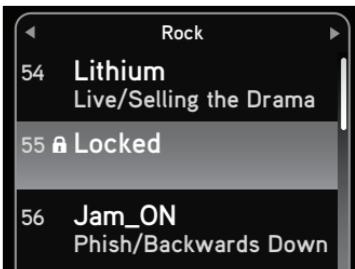
## Parental Controls

Your onyX has a parental control feature which will allow you to lock access to channels, or lock access to an entire category. A 4-digit code controls access to the locked channel or locked category.

When you browse a category, the locked channel number or locked category will be shown but not the artist and song/show information. Instead, a lock icon  and the word "Locked" is shown. If you scroll through the channels using ▼ and ▲, the locked channels are skipped and not displayed.

If you attempt to tune to a locked channel, either by using direct tune or through the category list, you'll be prompted to enter your 4-digit code.

When the correct code is entered, you'll be able to tune to and listen to the channel. All locked channels become unlocked and will remain unlocked until you turn the onyX Off, and back On. In the category list, the previously locked channels will show an unlocked icon .



*To turn Parental Controls On (or Off):*

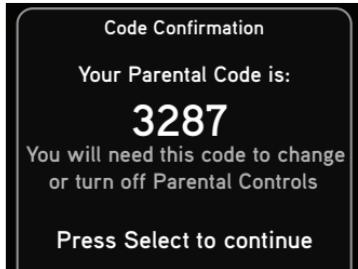
- 1 Press menu.
- 2 Press ▼ to scroll to and highlight **Parental Controls**. Press the **Select** button.
  - If this is the first time you want to turn on Parental Controls, Parental

Controls will be highlighted. Press the **Select button**. You will be prompted to select a 4-digit code:

- i. For each digit, press one of the **0-9** keys and then press ► to advance to the next digit. (Press ◄ if you need to go back and edit a previous digit.)
- ii. When you have selected all 4 digits of your code press the **Select button**.
- iii. The Code Confirmation screen will be displayed. For your records, write down the code you have selected. Press the **Select button**. Continue with step 3.

• If you had previously selected a 4-digit code you will be prompted to enter your code:

- i. For each digit, press one of the **0-9** keys and then press ► to advance to the next digit. (Press ◄ if you need to go back and edit a previous digit.)
- ii. When you have selected all 4 digits of the code press



# Special Features

the **Select button**.

- 3 At the “Parental Controls” screen, **Parental Controls** will be highlighted. Press the **Select button** to turn parental control On (or press the **Select button** to turn parental control Off).
- 4 Press and hold **menu** to return to the main display screen.

*To lock (or unlock) channels or categories:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Parental Controls**. Press the **Select button**.
- 3 You will be prompted to enter the 4-digit code. For each digit, press one of the **0-9** keys and then press ► to advance to the next digit. (Press ◀ if you need to go back and edit a previous digit.)
- 4 When you have entered all 4 digits of the code press the **Select button**.
- 5 If **Parental Controls** is shown as Off, press the **Select button** to turn it On, otherwise continue with the next step.
- 6 At the “Parental Controls” screen, Press ▼ to scroll to and highlight **Locked Channels**. Press the **Select button**.
- 7 A list of all the categories and the channels in each category will be displayed. Press ▼ and ▲ to scroll to and highlight a channel or category you want to lock. Press the **Select button**. A lock icon  will be displayed to the left of the channel or category you locked. (To unlock a locked channel or category, simply highlight the locked

channel or category and press the **Select button**. The lock icon will disappear indicating the channel or category is unlocked.)



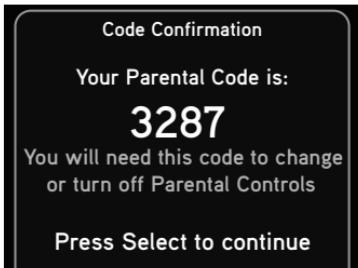
- 8 You can continue to lock and unlock as many channels or categories as you wish. When you are finished press and hold **menu** to return to the main display screen.

*To change your code:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Parental Controls**. Press the **Select button**.
- 3 You will be prompted to enter your existing 4-digit code. For each digit, press one of the 0-9 keys and then press ► to advance to the next digit. (Press ◀ if you need to go back and edit a previous digit.)

# Special Features

- 4 When you have entered all 4 digits of the code press the **Select button**.
- 5 If **Parental Controls** are shown as Off, press the **Select button** to turn it On, otherwise continue with the next step.
- 6 At the "Parental Controls" screen, Press ▼ to scroll to and highlight **Change My Code**. Press the **Select button**.
- 7 You will be prompted to enter a new 4-digit code. For each digit, press one of the 0-9 keys and then press ► to advance to the next digit. (Press ◀ if you need to go back and edit a previous digit.)
- 8 The Code Confirmation screen will be displayed. For your records, write down the code you have selected. Press the **Select button**.
- 9 Press and hold **menu** to return to the main display screen.



***To listen to a locked channel:***

There are two ways to tune to a channel which has been locked. The first is by directly tuning the locked channel, and the second is to select the locked channel from a category list.

- 1** Directly tune or select the locked channel:

***To directly tune a locked channel:***

- i. Press **direct** and enter the channel number using the **0-9** keys.

***To select a locked channel from the category list:***

- i. Press **◀** or **▶** to display the category list of the locked channel you wish to tune.
  - ii. Press **▼** to scroll to and highlight the locked channel. Press the **Select button**.
- 2** You will be prompted to enter your existing 4-digit code. For each digit, press one of the **0-9** keys and then press **▶** to advance to the next digit. (Press **◀** if you need to go back and edit a previous digit.)
- 3** When you have entered all 4 digits of the code press the **Select button**. If your code is correct the channel will be tuned. All locked channels become unlocked and will remain unlocked until you turn the onyx Off, and back On. In the category list, the previously locked channels will show an unlocked icon .



# Where Else Can You Use Your onyx?

# Where Else Can You Use Your onyX?

SIRIUS | XM offers a variety of accessories that allow you to adapt your onyX Radio to your lifestyle and enhance your listening experience. With these accessories, you can effortlessly take your Satellite Radio listening experience from your vehicle to your home or office or on the go – all with a single subscription.

- In the Home, Office, etc. - With a Home Kit, you can play your onyX over an existing home, office, or other stereo system
- In Other Vehicles - With a Vehicle Kit, you can enjoy your onyX in more than one vehicle.
- In Almost Any Location You Like - With a desktop or portable Sound System you have the freedom to listen to your onyX where and when you want, from your kitchen or den, to the office, to outside on the deck, or at a picnic.

For more information on XM accessories or to purchase an accessory, please visit your local retailer or [www.xmradio.com/accessories](http://www.xmradio.com/accessories).

# Configuring Your onyx

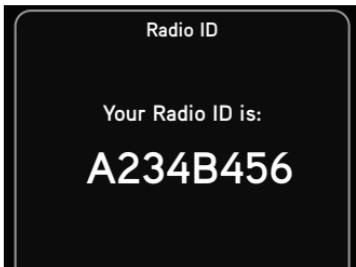
# Configuring Your onyX

## Radio ID

Your onyX has an alphanumeric ID which uniquely identifies the radio. This ID is used during the activation process.

*To display the Radio ID:*

- 1** Press **menu**.
- 2** **Radio ID** will be highlighted. If it is not highlighted, press ▼ to scroll to and highlight **Radio ID**. Press the **Select button**. The Radio ID will be displayed.
- 3** Press and hold **menu** to return to the main display screen.



## Find Available FM Channels in Your Area

Before attempting any of the procedures below, you should park your vehicle in a safe location. Do not attempt to set up your FM channels or any onyX function while driving.

PowerConnect allows you to listen to XM audio through your vehicle's FM radio. You will first need to find an available FM channel, which is a channel that is not being used by an FM radio station in your area. When you tune your FM radio to an available channel, you should only hear static or silence – not talk or music.

Once you have found an available channel, you need to tune onyX's built-in transmitter to the same channel to receive XM sound through your vehicle's radio.

We recommend one of the following methods to find an available FM channel:

### 1 Use the SIRIUS | XM FM Channel Finder

Use the SIRIUS | XM FM Channel Finder at [www.xmradio.com/fmchannel](http://www.xmradio.com/fmchannel). Go to the website and enter your zip code. The Channel Finder will suggest a list of available FM channels in your area. For convenience, write down or print out the list.

Tune onyX to a favorite XM channel (or to channel 1, if it's not yet activated). Turn on your vehicle's FM radio. Pick the first FM channel on your Channel Finder list and tune the FM radio to that channel. If you do not hear a local FM station broadcast, then tune the onyX to the same FM channel. (Refer to "Set and Select an FM Channel" on page 82.) You should hear the XM channel through your

# Configuring Your onyX

vehicle's radio. If you are satisfied with the sound quality, you're done! If this FM channel doesn't work well for you, work down the list until you find an FM channel that allows you to hear XM clearly.

OR

## 2 Manually tune through your local FM channels

Manually tune through your local FM channels on your vehicle's FM radio. Turn on your vehicle's FM radio. Start at 88.1 and use the 'Manual' tune function on your vehicle's FM radio to tune through each FM channel one-by-one (88.1 followed by 88.3 etc.) to locate channels that aren't being used by a local FM radio station. Write down each FM channel that has only static or silence on it, until you reach 107.9. Once you have created your list of available FM channels, you will need to find the one that provides the best match for onyX.

Tune onyX to a favorite XM channel (or to channel 1, if it's not yet activated). Pick the first FM channel on your list and tune the FM radio to that channel. Then tune the onyX to the same FM channel. (Refer to "Set and Select an FM Channel" on page 82.) You should hear the XM channel through your vehicle's radio. If you are satisfied with the sound quality, you're done! If this FM channel doesn't work well for you, work down the list until you find an FM channel that allows you to hear XM clearly.



**NOTE!** You may find an FM channel with static or silence that does not work with onyX. It is possible that some type of inaudible interference is present that prevents reception of the onyX broadcast. Your only options are to use another FM channel or a different audio connection method.



**TIP!** If you regularly drive from one location to another, such as your daily commute, you may need to use different FM channels along your route for best

performance. If this is the case, we recommend saving the best FM channels as presets on your FM radio and onyX. Then you simply select and match the best channel for the area you are in.



**TIP!** It will be much more difficult to find available FM channels in large cities than in most suburban or rural locations. A direct audio connection using the Aux In Cable, Cassette Adapter, or professional installation is your best solution if you drive in or near large metropolitan areas.



**NOTE!** The SIRIUS | XM FM Channel Finder relies on data from the Federal Communications Commission. The data may not reflect the latest stations in your area. In addition, local geography and weather conditions can impact reception, so your results may be different from the list.



**NOTE!** The performance of FM radios are different, based on manufacturer and vehicle style. Some may not work well with the type of FM transmitter used by onyX. This is why we recommend a direct audio connection using the Aux In Cable or Cassette Adapter if they can be used in your vehicle. Professional installation can also resolve almost any performance issue.

# Configuring Your onyX

## Set and Select an FM Channel

The onyX allows you to easily store (i.e., preset) up to 5 different FM channels. At any time, you can select any one of these 5 FM presets to transmit audio from the onyX to your vehicle's FM radio. Having a choice of 5 FM presets also makes it easy to switch to the appropriate FM channel as you travel from one area to another. Each FM preset is stored in its own storage location. You can easily add or edit the FM preset in any one of the 5 storage locations.



**IMPORTANT!** The onyX and the vehicle's FM radio need to be tuned to the same FM channel in order to hear the audio.



**TIP!** The FM 1 storage location is preset with FM channel 97.9.

### To set and select an FM preset:

- 1 Press menu.
- 2 Press ▼ to scroll to and highlight **FM Settings** and press the **Select button**.
- 3 **FM Channels** will be highlighted. If it is not highlighted, press ▼ to scroll to and highlight **FM Channels**. Press the **Select button**.
- 4 Press ▼ to scroll to and highlight the storage location (FM 1 to FM 5) you want to set and press the **Select button**. You can choose

FM Channels		
FM 1	97.9	
FM 2	99.3	current
FM 3	103.7	
FM 4	---	
FM 5	---	

among the following options:

- i. If the chosen storage location is empty (denoted by "----"), or if the storage location contains the FM preset currently being used (denoted by "current"), then the FM channel tuning screen is displayed.
- ii. If the chosen storage location has an FM preset that is not currently being used, and you want to edit it, **Edit Channel** is highlighted. Press the **Select button**. The FM channel tuning screen is displayed.
- iii. If the chosen storage location has an FM preset that is not currently being used, and you want to start using it, press **▲** to highlight **Start Using** and press the **Select button**. Skip to step 7.

5 Press **◀** and **▶** to tune the desired FM channel in steps of .2, i.e., 99.3 to 99.5. Press **▼** and **▲** to tune the desired channel in steps of 1, i.e., 99.3 to 100.3. Press the **Select button** to select the FM channel.

6 If you are editing the storage location that has the "current" FM preset, skip to step 7. Otherwise, **Start Using** will be highlighted. Press the **Select button**.



**NOTE!** You can also preset an FM channel in a storage location without having to start using it right away. Just press menu and exit the screen.



# Configuring Your onyX

- 7 The chosen FM channel will be confirmed on the display screen and the onyX will tune to that FM channel.
- 8 Set your vehicle's FM radio to same FM channel.



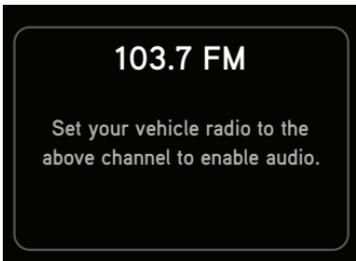
**IMPORTANT!** You'll first need to find a suitable FM channel that is unused or available in your area.

99.3 FM

Set your vehicle radio to the above channel to enable audio.

*To quickly select an FM channel from the preset list:*

- 1** Press **FM** to display the current FM preset.
- 2** To display and select the next FM preset, press **FM**. The radio will tune to the displayed FM channel. If the preset is the one you want, press **menu** or wait for the screen to timeout.
- 3** Repeatedly pressing **FM** will cycle through the FM presets.
- 4** Set your vehicle's FM radio to same FM channel.



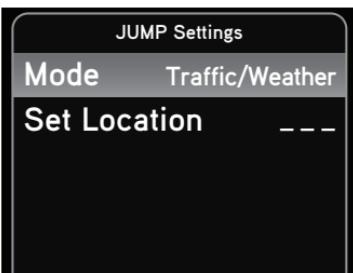
# Configuring Your onyx

## Jump Settings

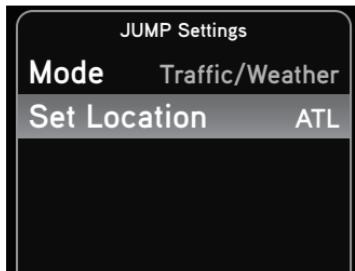
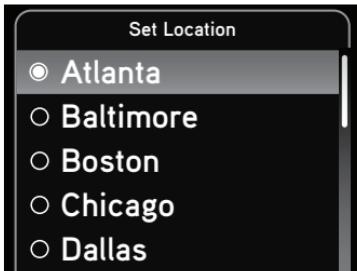
The **jump** button can be configured to either jump to the traffic and weather channel of one of the 20 most congested cities, or to jump back to the last channel to which you were listening. When configured for traffic/weather, you'll need to select a desired city from the list.

*To configure jump:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **JUMP Settings** and press the **Select** button.
- 3 Mode will be highlighted with either **Last Channel** or **Traffic/Weather**. If you want to change the mode, press the **Select button**. Otherwise, just leave it as shown. (Repeatedly pressing the **Select button** toggles between the choices.)
- 4 If you have selected **Last Channel**, press and hold **menu** to return to the main display screen. If you have selected **Traffic/Weather** continue with step 5.
- 5 Press ▼ to scroll to and highlight **Set Location** and press the **Select** button.



- 6** A list of cities will be displayed. Press ▼ to scroll to and highlight your desired location and press the **Select button**.
- 7** The **JUMP Settings** screen will display the location you selected. Press and hold **menu** to return to the main display screen.

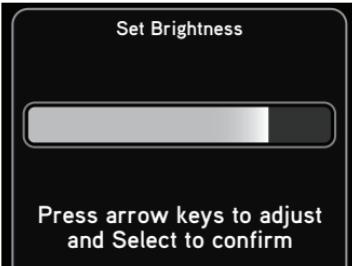


# Configuring Your onyx

## Set Brightness

*To change the display's brightness:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Brightness** and press the **Select** button.
- 3 Press ◀ to decrease or ▶ to increase the brightness of the display.
- 4 Press the **Select** button to confirm the brightness setting.
- 5 Press and hold **menu** to return to the main display screen.



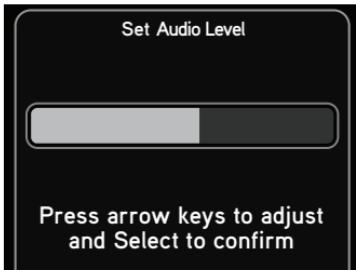
## Set Audio Level

The audio level of the onyX can be adjusted when an audio connection is made between the dock and the vehicle's stereo system. Audio level is used to adjust the onyX's volume level to match the volume of other audio sources you may use, such as a CD player, other FM stations, or an MP3 player.

Do not use the audio level as a volume control. Use the volume control on your vehicle's stereo instead.

### *To adjust the audio level:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Audio Level** and press the **Select** button.
- 3 Press ◀ to decrease or ▶ to increase the audio level.
- 4 Press the **Select button** to confirm the new audio level.
- 5 Press and hold **menu** to return to the main display screen.



# Configuring Your onyX

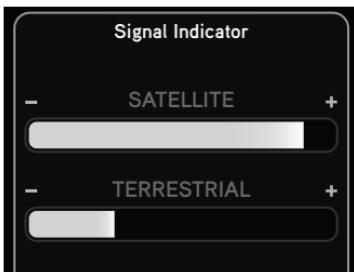
## Signal Indicator

For best reception, your Magnetic Mount Antenna should have an unobstructed view of the XM satellites. In large cities, there are terrestrial transmitters (ground repeaters) to help increase the signal coverage.

Your onyX can display the received strength of the satellite and terrestrial signals being received.

*To display the signal strength:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Signal Indicator** and press the **Select** button.
- 3 The Satellite and Terrestrial bars show the strength of the signal being received.
- 4 Reposition the antenna if you are having trouble receiving the signal.  
Be sure your vehicle is outside with an unobstructed view of the sky.
- 5 Press and hold **menu** to return to the main display screen.



## Factory Settings

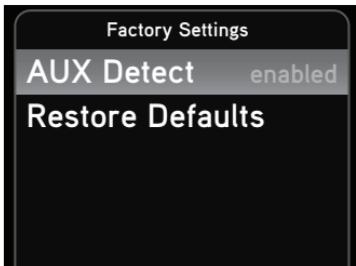
The factory settings menu has two choices, **AUX Detect** and **Restore Defaults**.

### AUX Detect

AUX Detect allows the onyX Radio to automatically detect a connection made to the **AUDIO** connector of the *PowerConnect Vehicle Dock* by an Aux In Cable or Cassette Adapter. AUX Detect is enabled by default.



**IMPORTANT!** If you are using the *PowerConnect Vehicle Dock* which came with your onyX Radio, AUX Detect should remain enabled.



If you are using the older model Vehicle Dock from the Universal Xpress Car Kit, and plan to use *PowerConnect* or *FMDA* as the audio connection option, you will need to disable AUX Detect. Please read the additional instructions, "Using the Vehicle Dock From the Universal Xpress Car Kit" on page 96. Once AUX Detect is disabled, you'll have to turn the FM Transmitter On. Refer to "Turn FM Transmitter On/Off" on page 98.

#### **To disable AUX Detect:**

(Do this only when using the older model Vehicle Dock.)

- 1 Press **menu**.

# Configuring Your onyX

- 2 Press ▼ to scroll to and highlight **Factory Settings** and press the **Select button**.
- 3 **AUX Detect** should be highlighted and show as enabled. Press the **Select button** to toggle the setting.
- 4 A warning screen will be displayed. Press the **Select button** to confirm that you want to disable AUX Detect.  
If you want to cancel press **menu** to return to **Factory Settings**. AUX Detect will remain enabled.
- 5 AUX Detect will show as disabled. Press and hold **menu** to return to the main display screen.

## To enable AUX Detect

(Do this when radio is transferred to the PowerConnect Vehicle Dock from an older model Vehicle Dock.)

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Factory Settings** and press the **Select button**.
- 3 **AUX Detect** will be highlighted and show as disabled. Press the **Select button** again to toggle the setting to enabled.
- 4 Press and hold **menu** to return to the main display screen.

### Disable AUX Detect?

Disable only if using vehicle dock from Universal Xpress Car Kit. Otherwise, leave it enabled.

Press Select to confirm or menu to cancel

## Restore Defaults

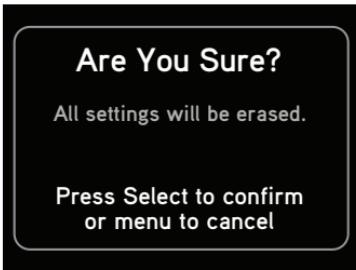
You can clear all of your personal settings, such as favorite channels, FM presets etc. and return the radio to its original out-of-the-box settings

*To reset onyX to factory defaults:*



**NOTE!** Restoring defaults permanently removes all personal settings.

- 1** Press **menu**.
- 2** Press **▼** to scroll to and highlight **Factory Settings** and press the **Select button**.
- 3** Press **▼** to scroll to and highlight **Restore Defaults** and press the **Select button**.
- 4** A warning screen will be displayed. If you are certain that you want to reset your onyX to the default settings, press the **Select button** to confirm.  
If you want to cancel, press **menu** to return to **Factory Settings**.



# Configuring Your onyX

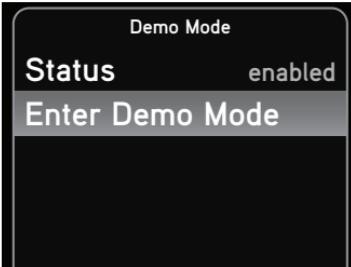
## Demo Mode

Your onyX has a demo mode that starts playing when, for a prolonged period of time (more than 5 minutes), the radio either detects it's not connected to the antenna, or the antenna stops receiving a signal. It disappears when the antenna is connected properly or when the radio starts receiving a signal. You can also exit demo mode at any time, by pressing and holding the **Select button** for 10 seconds. If desired, you can also manually put the onyX in demo mode.

The ability for onyX to enter demo mode is enabled by default. If you don't want onyX to ever enter the demo mode, you can disable the demo feature. You can enable it again at another time if desired.

*To enable or disable the demo mode:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **Demo Mode** and press the **Select button**.
- 3 **Status** will be highlighted. Press the **Select button** to toggle the setting between enabled or disabled. (Repeatedly pressing the **Select button** toggles between the choices.)
- 4 If you have selected disabled, press and hold **menu** to return to the main display screen. If you have selected enabled continue with step 5.



- 5** Press ▼ to scroll to and highlight **Enter Demo Mode** and press the **Select button**. The demo mode will start in 10 seconds.
- 6** To exit demo mode at any time, press and hold the **Select button** for 10 seconds.



# Configuring Your onyX

## Using the Vehicle Dock From the Universal Xpress Car Kit

If you have chosen to use the Vehicle Dock from the Universal Xpress Car Kit rather than the PowerConnect Vehicle Dock included with your onyX radio, you will need to complete some additional installation steps. When you have completed these additional steps, you can continue with the installation of your onyX.

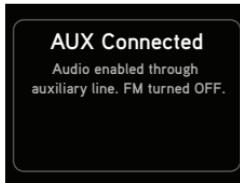
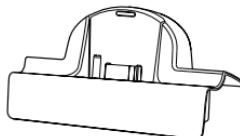
When you are using the Universal Xpress Vehicle Dock, the screen will initially display "AUX Connected" when you power on your onyX. Ignore this message. Once you have completed the steps below, it will not be displayed again.

***If you are connecting the audio through your vehicle's FM radio (SureConnect or FMDA):***

- 1 Disable the AUX Detect feature. Refer to "AUX Detect" on page 91, and disable AUX Detect.
- 2 Turn the FM Transmitter in the onyX On. Refer to "Turn FM Transmitter On/Off" on page 98, and turn the FM Transmitter On.
- 3 Continue with the installation.

***If you are connecting the audio using the Aux In Cable or Cassette Adapter:***

- 1 Disable the AUX Detect feature. Refer to "AUX Detect" on page 91, and disable AUX Detect.





**TIP!** The FM Transmitter must be Off. To verify that the FM Transmitter is Off, refer to "Turn FM Transmitter On/Off" on page 98.

- 2** Continue with the installation.

# Configuring Your onyX

## Turn FM Transmitter On/Off

Turning the FM Transmitter On applies only if you are using the older model Vehicle Dock from the Universal Xpress Car Kit, and plan to use *SureConnect* or FMDA as the audio connection option.

You'll have to turn On the FM Transmitter under the **FM Settings** menu. However, before you can access the **FM Settings** menu, you first need to disable AUX Detect. Refer to "AUX Detect" on page 91. Once you have disabled AUX Detect, the **FM Settings** menu will be accessible.

*To turn the FM Transmitter On:*

- 1 Press **menu**.
- 2 Press ▼ to scroll to and highlight **FM Settings** and press the **Select** button.
- 3 **FM Transmitter** will be highlighted. Press the **Select** button to toggle the setting from Off to On.
- 4 The **FM Channels** menu item will now be accessible, allowing you to tune the onyX and the FM radio in your vehicle to the same FM channel.



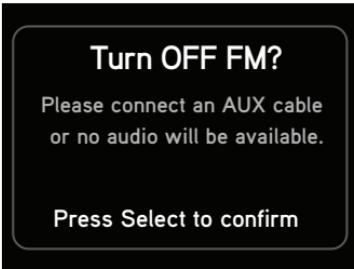
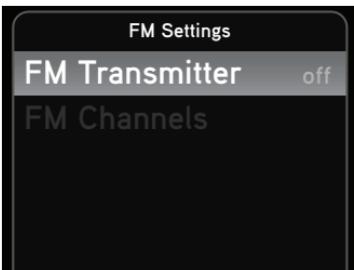
**TIP!** onyX is programmed with FM channel 97.9 as the default setting.



**To turn the FM Transmitter Off:**

If you are using the older model Vehicle Dock from the Universal Xpress Car Kit, and plan to use the Aux In Cable or a Cassette Adapter as the audio connection option, you'll have to turn the FM Transmitter under the **FM Settings** menu in the onyX Radio Off, if it was previously turned On.

- 1** Press **menu**.
- 2** Press **▼** to scroll to and highlight **FM Settings** and press the **Select button**.
- 3** **FM Transmitter** will be highlighted. Press the **Select button** to toggle the setting from On to Off.
- 4** A warning message will be displayed advising you to connect the Aux In Cable. Press the **Select button** to confirm that you want to turn off the FM Transmitter.
- 5** Press and hold **menu** to exit.





# Troubleshooting

# Troubleshooting

onyX has been designed and built to be trouble-free but if you experience a problem, try this:

- Check that all connections are firm and secure.
- Make sure the vehicle power socket is clean and free of corrosion.
- Make sure you have connected the onyX as described in this User Guide. Verify that the PowerConnect Power Adapter is plugged into the vehicle's cigarette lighter or power adapter socket, and that the LED on the PowerConnect Power Adapter is lit (on). If not, your vehicle may need to be running to provide power to the socket.

If you see this on the screen:	Try this:
Acquiring Signal	<ul style="list-style-type: none"><li>• Make sure that the vehicle is outdoors with a clear view of the sky.</li><li>• Make sure the Magnetic Mount Antenna is mounted outside of the vehicle.</li><li>• Move the antenna away from any obstructed area. For example, if you are parked in an underground garage, you should receive a signal after leaving the garage.</li></ul>
Check Antenna Connection	<ul style="list-style-type: none"><li>• Make sure that the antenna cable is firmly and securely plugged into the PowerConnect Vehicle Dock. Make sure the cable is not bent or broken.</li><li>• Turn onyX Off, then On, to reset this message.</li><li>• If the message persists, most likely the Magnetic Mount Antenna cable has been damaged. Replace the antenna.</li></ul>

<b>If you see this on the screen:</b>	<b>Try this:</b>
Channel Off Air	<ul style="list-style-type: none"> <li>The channel you've selected is not currently broadcasting. Tune to another channel.</li> </ul>
Loading	<ul style="list-style-type: none"> <li>Your onyX is acquiring audio or program information. This message usually goes away in a few seconds.</li> </ul>
Updating	<ul style="list-style-type: none"> <li>Your onyX is updating with the latest encryption code. Wait until the update is done.</li> <li>You may be trying to tune to a channel that is blocked or unavailable. Tune to another channel.</li> </ul>
—	<ul style="list-style-type: none"> <li>No program information, such as artist name, song title, or channel exists.</li> </ul>
<b>If this happens:</b>	<b>Try this:</b>
You do not receive all the channels to which you subscribed	<ul style="list-style-type: none"> <li>Ensure that you have activated your service by following the steps in "Activation" on page 50.</li> <li>Go to <a href="http://www.xmradio.com/refresh">www.xmradio.com/refresh</a> and follow the directions to refresh your radio.</li> <li>Call 1-800-967-2346 for further assistance.</li> </ul>
Audio sounds too soft	<ul style="list-style-type: none"> <li>Raise the volume of your stereo system or increase the audio level of your onyX until the sound quality improves. Refer to "Set Audio Level" on page 89.</li> </ul>

# Troubleshooting

If this happens:	Try this:
No audio when using the Aux In Cable or Cassette Adapter	<ul style="list-style-type: none"><li>Check all cables between your onyX and your vehicle's stereo system for a firm and secure connection.</li><li>Ensure you have selected the proper input source on your vehicle's stereo system.</li><li>If you are using the Vehicle Dock that came with the Universal Xpress Car Kit, ensure that the FM Transmitter in the onyX is turned Off, and increase the audio level of the onyX. Refer to "Set Audio Level" on page 89.</li></ul>
Audio fades or has static when listening	<ul style="list-style-type: none"><li>Check all cables for a firm and secure connection.</li><li>If you are using PowerConnect to listen via your vehicle's FM radio, and the problem persists, it most likely is interference from another commercial or broadcast FM station. You will need to find an unused or available FM channel in your area. Refer to "Find Available FM Channels in Your Area" on page 79.</li><li>If you are using PowerConnect, and you cannot solve the audio problem, try connecting the audio using the Aux In Cable or a Cassette Adapter. (Refer to page 39 and page 41.) If you cannot use those solutions, consider using an FM Direct Adapter. (Refer to page 47.)</li></ul>

If this happens:	Try this:
No audio when using PowerConnect or FMDA	<ul style="list-style-type: none"> <li>Check that your onyX and your vehicle's FM radio are tuned to the same FM channel.</li> <li>For PowerConnect, ensure you are using the PowerConnect Vehicle Dock and PowerConnect Power Adapter.</li> <li>If you are using the Vehicle Dock that came with the Universal Xpress Car Kit, ensure that the FM Transmitter in the onyX is turned On. Refer to "Turn FM Transmitter On/Off" on page 98.</li> </ul>
No song title or artist name is displayed	<ul style="list-style-type: none"> <li>The information may not be available or updates may be in progress.</li> </ul>
Traffic and Weather channels sound different from other channels	<ul style="list-style-type: none"> <li>These channels use a different audio technology than other channels so they often sound different from other channels.</li> </ul>
The demo is playing	<ul style="list-style-type: none"> <li>Your Magnetic Mount Antenna is not connected or you are not receiving the signal. Check that the antenna is connected properly and is not obstructed.</li> <li>Press and hold the <b>Select button</b> for 10 seconds to exit Demo Mode.</li> <li>You can disable Demo Mode. Refer to "Demo Mode" on page 94.</li> </ul>



# Product Specifications

# Product Specifications

## System

Power Requirements:	9-16 V DC, 500 mA (max)
Operating Temperature:	-20°C to +60°C (-4°F to +140°F)
Audio Output:	1.0 Vrms (max)

## onyX Radio

Dimensions:	115 mm (width) x 61 mm (height) x 17 mm (depth) 4.5 in (width) x 2.4 in (height) x 0.7 in (depth)
Weight:	95 g (3.4 oz)

## PowerConnect Vehicle Dock

Dimensions:	102 mm (width) x 59 mm (height) x 31 mm (depth) 4.0 in (width) x 2.3 in (height) x 1.2 in (depth)
Weight:	46 g (1.6 oz)
FM Connector:	2.5 mm female
Audio Connector:	3.5 mm female
Antenna Connector:	SMB male
Power Connector:	4.8 mm female

## PowerConnect Power Adapter

Dimensions:	94 mm (width) x 43 mm (height) x 34 mm (depth) 3.7 in (width) x 1.7 in (height) x 1.3 in (depth)
Weight:	69 g (2.4 oz)
Input / Output:	9-16 V DC / 5 V DC, 1.5 A
Cable Length:	1.4 m (4 ft 7 in)

## Vehicle Antenna

Type:	XM Magnetic Mount
Connector:	SMB female, right angle
Cable Length:	7.0 m (23 ft)

## Aux In Cable

Connectors:	3.5 mm stereo male to 3.5 mm stereo male
Cable Length:	1.2 m (4 ft)

# Patent and Environmental Information

## Patent Information

It is prohibited to, and you agree that you will not, copy, decompile, disassemble, reverse engineer, hack, manipulate, or otherwise access and/or make available any technology incorporated in this product. Furthermore, the AMBE™ voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The software is licensed solely for use within this product. The music, talk, news, entertainment, data, and other content on the Services are protected by copyright and other intellectual property laws and all ownership rights remain with the respective content and data service providers. You are prohibited from any export of the content and/or data (or derivative thereof) except in compliance with applicable export laws, rules and regulations. The user of this or any other software contained in a SIRIUS | XM radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, hack, manipulate or disassemble the object code, or in any other way convert the object code into human-readable form.

## Environmental Information

Follow local guidelines for waste disposal when discarding packaging and electronic appliances.

Your radio is packaged with cardboard, polyethylene, etc., and does not contain any unnecessary materials.

# FCC Statement

The user is cautioned that changes or modifications not expressly approved by SIRIUS XM Radio Inc. can void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the affected receiver.
- Increase the separation between the SIRIUS | XM equipment and the affected receiver.
- Connect the SIRIUS | XM equipment into an outlet on a circuit different from that to which the affected receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING!** The FCC and FAA have not certified this Satellite Radio Receiver for use in any aircraft (neither portable nor permanent installation). Therefore, SIRIUS XM Radio Inc. cannot support this type of application or installation.

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# **Owners Record**

## **Owner's Record**

The radio model number is located below and the XM Radio ID is located on the label on the back of the onyX.

Record the XM Radio ID in the space provided below. Refer to these numbers whenever you call your dealer regarding this product.

Radio Model Number: XDNX1

XM Radio ID: \_\_\_\_\_



**xmradio.com**

**SIRIUS XM Radio Inc.  
1221 Avenue of the Americas  
New York, NY 10020**

**1.800.967.2346**

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